**2014 PSSA Hot Topics in 6th Grade Math**

|  |  |
| --- | --- |
| GCF | CC-1 (2.3.3), (3.1.1) |
| LCM | CC-1 (1.2.4), (3.2.2) |
| Division of fractions | CC-1 (6.1.4), (7.2.2), Checkpoint 8B |
| Apply properties→  Focus on Distributive property | CC-1 (2.3.4), (7.3.2), Checkpoint 8A |
| Solve problems involving operations (+,-,x,÷) with whole numbers, decimals (through thousandths), straight computation or word problems |  |
| Patterns (create, extend, find missing, determine rule) |  |
| Solve one-step equations | CC-1 Checkpoint 9B |
| Match equations/expressions to verbal situations |  |
| Whole number exponents | CC-1 (1.2.4), (6.1.4) |
| Substitute to determine if an inequality is true | CC-1 (7.3.4) |
| Box-and-whisker plots | CC-1 (8.1.4), Checkpoint 9A |
| Mean, median, mode  Range, interquartile range | CC-1 (8.1.1) |
| Divisibility Rules |  |
| Alg. Expressions:  Simplifying  Write  ID parts  Evaluate  Write/solve to rep. real world problems | CC-2 Checkpoint 7A  CC-1 (4.1.3)  CC-1 (7.3.3)  CC-1 Checkpoint 8A, CC-2 Checkpoint 6 |
| Inequalities | CC-1 (7.3.4) |

**CC-1 CC-2**

**Ch. 1:** 1.2.4 **Checkpoint:** 6,7A

**Ch. 2:** 2.3.3, 2.3.4,

**Ch. 3:** 3.1.1, 3.2.2,

**Ch. 4:** 4.1.3

**Ch. 6:** 6.1.4,

**Ch. 7:** 7.2.2, 7.3.2, 7.3.3, 7.3.4

**Ch. 8:** 8.1.1,8.1.4

**Checkpoint:** 8A, 8B, 9A, 9B

**2014 PSSA Hot Topics in 7th Grade Math**

|  |  |
| --- | --- |
| Unit rates | CC-2 Checkpoint 9 |
| Ratios  Proportions (a lot of this-application type problems) | CC-2 (5.1.1)  CC-2 Checkpoint 9 |
| Area and circumference of circles | CC-2 (9.1.1), (9.1.2) |
| Area  Volume  Surface area of all shapes on formula sheet | CC-2 (1.1.2)  CC-2 (9.2.3), (9.2.4) |
| Angles formed by parallel and intersecting lines | CC-3 (9.1.1) |
| Supplementary, complementary and adjacent angles | CC-2 (8.3.1), (8.3.2) |
| Triangle properties | CC-2 (8.3.4) |
| Inequalities | CC-2 (6.1.3), (6.1.4) |
| Random samples and making inferences | CC-2 (8.2.2) |
| Mean, median, mode and comparisons within | CC-1 (8.1.2), (8.1.3), (8.1.5) |
| Probability | CC-2 (5.2.1-5.2.6) |
| Order of Operations | CC-1 (6.2.1)  CC-2 Checkpoint 5 |
| Number Lines-locate #’s, add | CC-1 Checkpoint 6 |
| Surface Area | CC-1 (9.1.2) |

**CC-1 CC-2 CC-3**

**Ch. 6:** 6.2.1  **Ch. 1:** 1.1.2 **Ch. 9:** 9.1.1

**Ch. 8:** 8.1.2 **Ch. 2:**

8.1.3  **Ch. 3:**

8.1.5  **Ch. 5:** 5.1.1, 5.2.1, 5.2.6

**Ch. 9:** 9.1.2 **Ch. 6:** 6.1.3, 6.1.4

**Checkpoint:**  6 **Ch. 7:**

**Ch. 8:** 8.2.2, 8.3.1, 8.3.2, 8.3.4

**Ch. 9:** 9.1.1, 9.1.2, 9.2.3, 9.2.4

**Checkpoint:** 5, 9,

**2014 PSSA Hot Topics in 8 Grade Math**

|  |  |
| --- | --- |
| Scientific notation | CC-3 (8.2.1), (8.2.4) |
| Integer exponents (3-3) | CC-3 (8.2.2), (8.2.3) |
| Slope triangles | CC-3 (7.2.2), (7.2.3) |
| Volume of cones, cylinders, spheres | CC-3 (10.1.2-10.1.5) |
| Nets | CC-1 (9.1.2) |
| Rotations, reflections and translations \* | CC-3 (6.1.1-6.1.4) |
| Angles formed by parallel and intersecting lines | CC-3 (9.1.1) |
| Pythagorean theorem (using to find the distance between 2 points) | CC-3 (9.2.2), (9.2.5) |
| Determine rate of change and initial value of a function | CC-3 (7.2.2-7.2.4) |
| Scatter plots | CC-3 (7.1.2), (7.1.3), Checkpoint 9 |
| Line of best fit for scatter plots | CC-3 (7.1.2) |
| Slope-Intercept Form | CC-3 (5.1.1), (7.2.1) |
| Slope Formula | CC-3 (7.2.2-7.2.4) |

**CC-1 CC-3**

**Ch. 9:** 9.1.2  **Ch. 5:** 5.1.1

**Ch. 6:** 6.1.1, 6.1.2, 6.1.3, 6.1.4

**Ch. 7:** 7.1.2, 7.1.3,7.2.1,7.2.2, 7.2.3, 7.2.4

**Ch. 8:** 8.2.1, 8.2.2, 8.2.3, 8.2.4

**Ch. 9:** 9.1.1, 9.2.2, 9.2.5

**Ch. 10:** 10.1.2, 10.1.3, 10.1.4, 10.1.5

**Checkpoint:** 9